

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P277635

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-RDP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2012.0 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

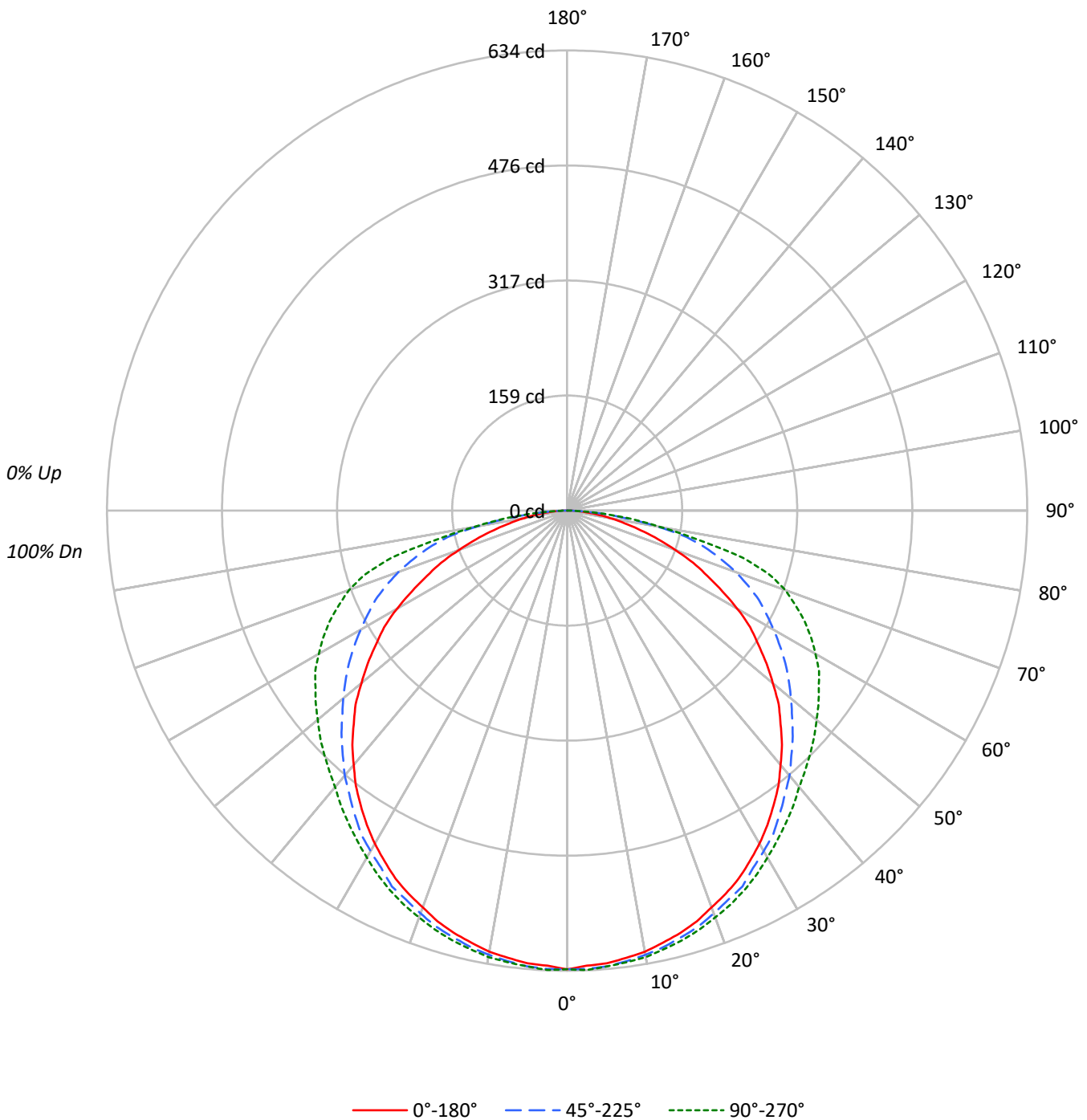
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277635

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P277635

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L92765-W2A1-U-5500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1701	1701	1701
5°	1691	1703	1703
10°	1686	1699	1707
15°	1678	1695	1707
20°	1666	1691	1708
25°	1661	1696	1714
30°	1647	1683	1716
35°	1629	1677	1726
40°	1607	1674	1747
45°	1583	1673	1802
50°	1549	1685	1878
55°	1507	1722	1986
60°	1458	1769	2127
65°	1357	1857	2299
70°	1246	1945	2515
75°	1093	2047	2600
80°	941	1949	2041
85°	821	1417	1553



TEST NUMBER: P277635

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	3.0
10°-20°	171.7	8.5
20°-30°	261.9	13.0
30°-40°	319.8	15.9
40°-50°	341.9	17.0
50°-60°	330.0	16.4
60°-70°	284.1	14.1
70°-80°	192.2	9.6
80°-90°	50.7	2.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	493.3	24.5
0°-40°	813.1	40.4
0°-60°	1485.0	73.8
0°-90°	2012.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	626	628	630	630	630	59
15°	602	604	608	611	613	170
25°	560	562	571	574	577	257
35°	496	500	511	521	525	310
45°	416	423	440	462	474	321
55°	321	332	367	404	423	288
65°	213	234	292	338	361	212
75°	105	139	197	237	250	113
85°	27	37	46	47	50	30
90°	0	0	0	0	0	



TEST NUMBER: P277635

CATALOG NUMBER: 22CZ2-34HE-RDP-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	632.0	632.0	632.0	632.0	632.0
2.5°	627.6	629.0	632.0	632.0	633.5
5°	626.1	627.6	630.5	630.5	630.5
7.5°	621.6	623.1	626.1	627.6	627.6
10°	617.2	618.7	621.6	623.1	624.6
12.5°	609.8	611.3	615.7	618.7	618.7
15°	602.4	603.9	608.3	611.3	612.8
17.5°	593.5	596.5	600.9	603.9	605.4
20°	581.7	584.6	590.6	595.0	596.5
22.5°	571.3	574.3	580.2	584.6	587.6
25°	559.5	562.4	571.3	574.3	577.2
27.5°	544.7	547.6	555.0	561.0	565.4
30°	529.9	532.8	541.7	549.1	552.1
32.5°	513.6	518.0	528.4	534.3	538.8
35°	495.8	500.3	510.6	521.0	525.4
37.5°	478.1	482.5	492.9	506.2	512.1
40°	457.4	463.3	476.6	494.4	497.3
42.5°	438.1	445.5	457.4	478.1	485.5
45°	415.9	423.3	439.6	461.8	473.6
47.5°	395.2	402.6	420.3	447.0	461.8
50°	370.0	380.4	402.6	433.7	448.5
52.5°	346.3	355.2	384.8	418.9	436.6
55°	321.2	331.5	367.1	404.1	423.3
57.5°	299.0	307.9	347.8	389.3	411.5
60°	270.9	282.7	328.6	373.0	395.2
62.5°	241.3	259.0	309.3	355.2	378.9
65°	213.1	233.9	291.6	337.5	361.1
67.5°	188.0	210.2	269.4	318.2	340.4
70°	158.4	186.5	247.2	294.5	319.7
72.5°	131.7	162.8	222.0	269.4	291.6
75°	105.1	139.1	196.9	236.8	250.1
77.5°	81.4	114.0	168.7	180.6	182.1
80°	60.7	90.3	125.8	127.3	131.7
82.5°	41.4	63.6	81.4	88.8	90.3
85°	26.6	37.0	45.9	47.4	50.3
87.5°	11.8	13.3	16.3	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)